### PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORIT	гү				
То:			PCT		
Alban Tay Nahtani & De Silva 39 Robinson Road	• •		101		
#07-01 Robinson Point			TTEN OPINION OF THE		
068911 Singapore		INTERNATIO	NAL SEARCHING AUTHORITY		
		·	(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	- 9 DEC 2004		
Applicant's or agent's file reference 20401577JW		FOR FURTHER ACTION See paragraph 2 below			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/SG2004/000319	30 September 2004	1	7 November 2003		
International Patent Classification (IPC) or	both national classifica	ation and IPC			
Int. Cl. 7 A61M 29/00, A61F 2/06,	A61B 17/12				
Applicant	_ 、	-			
MERLIN MD PTE LTD (ET A	L.)				
1: This opinion contains indications relati	ing to the following ite	ems:			
X Box No. I Basis of the opinion					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of inve	Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents c	ited				
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
<i>)</i>					
2. FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/22	•	•	•		
3. For further details, see notes to Form PCT/ISA	A/220.		·		
Name and mailing address of the IPEA/AU		Authorized Officer	19		
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA	_	MATTHEW FORWARD			
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000319

Bo	x No. I	Basis of the opinion
1.		to the language, this opinion has been established on the basis of the international application in the language in filed, unless otherwise indicated under this item.
	the foll	inion has been established on the basis of a translation from the original language into owing language , which is the language of a translation furnished for the purposes of ional search (under Rules 12.3 and 23.1(b)).
2.		o any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ntion, this opinion has been established on the basis of:
	a, type of n	aterial
_	as	equence listing
	tab	le(s) related to the sequence listing
'n	b. format of	material
J	=	vritten format
-		omputer readable form
		ing/furnishing
•		tained in the international application as filed.  I together with the international application in computer readable form.
		ished subsequently to this Authority for the purposes of search.
•	_	
3.	filed or	on, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been urnished, the required statements that the information in the subsequent or additional copies is identical to that oblication as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional co	nments:
)		

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International application No.

PCT/SG2004/000319

1. Statement		
Novelty (N)	Claims 9-24, 31-39	YES
	Claims 1-8, 25-30	NO
Inventive step (IS)	Claims	YES
	Claims 1-39	NO
Industrial applicability (IA)	Claims 1-39	YES
	Claims	NO

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

#### Citations and explanations:

Box No. V

The following documents identified in the International Search Report have been considered for the purposes of this report:

- D1 US 2003/0093111 A1
- D2 WO 1998014137 A1
- D3 EP 0947204 A2
- D4 US 6024765 A
- D5 EP 754435 A1
- D6 EP 1391184 A1

The present claims define an implantable medical device for insertion into a passage and a wire structure made from a platinum alloy, wherein the device or wire are made from a platinum alloy selected from the group consisting of platinum:ridium alloy, platinum:tungsten alloy, platinum:ruthenium alloy, platinum:rhodium alloy and platinum:nickel alloy.

#### **NOVELTY AND INVENTIVE STEP: Claims 1-39**

D1 discloses a vaso-occlusive device of metallic wire and methods of this device to treat patients by implanting such devices at the site of abnormal blood flow; the metallic wire can comprise a metal selected from the group consisting of platinum, tungsten, rhenium, rhodium, ruthenium, nickel and alloys thereof {Abstract, Fig.1A -3B, paragraph [0003] – paragraph [0044]}, which is an implantable medical device for insertion into a passage, Claims 1-6, are not new and do not involve inventive step in view of this document. Claims 7-24, 31-39 do not involve inventive step in view of this documents as all their technical features are common general knowledge of the art.

D2 discloses a radially expandable stent which is formed of fine wire (10), the wire comprises an alloy selected from the group consisting of Pt-Ir with 90 wt % Pt and 10 wt % Ir {entire document}, which is an implantable medical device for insertion into a passage, wherein the device is made from a platinum alloy selected from the group consisting of platinum:iridium alloy, where the alloy exhibit a tensile strength of about 155,000 to 175,000 PSI and comprises about 90 wt % of Pt and 10 wt % Ir. Claims 1-8, 25-30 are not new and do not involve inventive step in view of this document. Claims 9-24, 31-39 do not involve inventive step in view of this documents as all their technical features are common general knowledge of the art.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

D3 discloses an endoprosthesis. In preferred embodiment the body structure includes an elongated central cylindrical core and an elongated outer tubular member disposed around the core. One of the first and second materials comprises the core and the other comprises the tubular member. The first material is preferably selected from the group consisting of platinum, iridium, tungsten alloys thereof and any combination thereof {Abstract, Fig. 1-3, paragraph [0008] – paragraph [0012]}. Claims 1-6, 25-30 are not new and do not involve inventive step in view of this document. Claims 7-24, 31-39 do not involve inventive step in view of this documents as all their technical features are common general knowledge of the art.

D4 discloses an implantable vaso-occlusive coil which is implanted using minimally invasive surgical techniques. The material used in constructing a vaso-occlusive member may be any of a wide variety of materials: alloys of metals of Platinum Group, especially platinum, rhodium {entire document}. Claims 1-6, 25-30 are not new and do not involve inventive step in view of this document. Claims 7-24, 31-39 do not involve inventive step in view if this document as all technical features of these claims are common general knowledge of the art.

5 discloses a vaso-occlusive device with helically wound coil made of Pt, Rh, W or their alloys {entire document}. Claims 1-6, 25-30 are not new and do not involve inventive step in view of this document. Claims 7-24, 31-39 do not involve inventive step in view if this document as all technical features of these claims are common general knowledge of the art.

D6 discloses an expandable multi-layer tubular structuture useful as a surgical stent which has two or more layers. The different layers can be made from Pt-Ir alloy {entire document}. Claims 1-6, 25-30 are not new and do not involve inventive step in view of this document. Claims 7-24, 31-39 do not involve inventive step in view if this document as all technical features of these claims are common general knowledge of the art.